



*Where ideas connect*

Department of Environmental Quality  
Division of Air Quality

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DAQE-IN2145008-03

September 23, 2003

Michael Barrett  
Crown Asphalt Corporation  
1710 West 2600 South  
Woods Cross, Utah 84087

Dear Mr. Barrett:

Re: Intent to Approve: Modification of Approval Order DAQE #840-99, by Adding Equipment from  
Gadsby Plant, Davis County – CDS B; MAINT; HAPs  
Project Code: N2145-008

The attached document is the Intent to Approve (ITA) for the above-referenced project. ITAs are subject to public review. Any comments received shall be considered before an Approval Order is issued.

Future correspondence on this Intent to Approve should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. Please direct any technical questions you may have on this project to Mr. John D. Jenks. He may be reached at (801) 536-4459.

Sincerely,

Rusty Ruby, Manager  
New Source Review Section

RR:JDJ:re

cc: Davis County Health Department

**STATE OF UTAH**

**Department of Environmental Quality**

**Division of Air Quality**

**INTENT TO APPROVE: MODIFICATION OF APPROVAL  
ORDER DAQE #840-99, BY ADDING EQUIPMENT FROM  
GADSBY PLANT**

**Prepared By: John D. Jenks, Engineer  
(801) 536-4459  
Email:jjenks@utah.gov**

**INTENT TO APPROVE NUMBER**

**DAQE-IN2145008-03**

**Date: September 23, 2003**

**Crown Asphalt Corporation  
Source Contact  
Michael Barrett  
(801) 296-0166**

**Richard W. Sprott  
Executive Secretary  
Utah Air Quality Board**

## *Abstract*

***Crown Asphalt Products Company (Crown) submitted a Notice of Intent to relocate asphalt blending mill equipment and storage tanks from their Gadsby Plant in Salt Lake City to their Cowboy Asphalt Terminal, located in Woods Cross, Davis County. Davis County is an attainment area of the National Ambient Air Quality Standards (NAAQS) for all pollutants and is a maintenance area for ozone. The Cowboy Asphalt Terminal is currently operating under Approval Order (AO) DAQE-840-99, and this change would be a modification of that AO. The modification is not subject to New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAP) or Maximum Available Control Technology (MACT) regulations, although the Cowboy Asphalt Terminal is subject to NSPS A, K, Ka and Kb. Title V of the 1990 Clean Air Act applies to this source as an area source. No Title V application is required at this time. The emissions, in tons per year, will increase as follows:  $PM_{10}$  0.3,  $NO_x$  3.2,  $SO_2$  0.1, CO 2.7, and VOC 0.3. These increases will result in the following potential to emit totals in tons per year:  $PM_{10}$  = 1.3,  $NO_x$  = 6.5,  $SO_2$  = 0.2, CO = 6.8, VOC = 6.2, HAPs = 0.2.***

The Notice of Intent (NOI) for the above-referenced project has been evaluated and has been found to be consistent with the requirements of the Utah Administrative Code Rule 307 (UAC R307). Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an Approval Order (AO) by the Executive Secretary of the Utah Air Quality Board.

A 30-day public comment period will be held in accordance with UAC R307-401-4. A notice of intent to approve will be published in the Salt Lake Tribune and Deseret News on September 27, 2003. During the public comment period the proposal and the evaluation of its impact on air quality will be available for both you and the public to review and comment. If anyone so requests a public hearing it will be held in accordance with UAC R307-401-4. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated.

Please review the proposed AO conditions during this period and make any comments you may have. The proposed conditions of the AO may be changed as a result of the comments received. Unless changed, the AO will be based upon the following conditions:

### **General Conditions:**

1. This Approval Order (AO) applies to the following company:

#### Site Office

Cowboy Asphalt Terminal  
1710 West 2600 South  
Woods Cross, Utah 84087

#### Corporate Office Location

Crown Asphalt Products Company  
215 South State, Suite 650  
Salt Lake City, Utah 84111

Phone Number (801) 355-3223

Fax Number (801) 537-1863

The equipment listed in this AO shall be operated at the following location:

1710 West 2600 South, Woods Cross, Utah 84087

Universal Transverse Mercator (UTM) Coordinate System: UTM Datum NAD27  
4,523.0 kilometers Northing, 422.7 kilometers Easting, Zone 12

2. All definitions, terms, abbreviations, and references used in this AO conform to those used in the Utah Administrative Code (UAC) Rule 307 (R307) and Title 40 of the Code of Federal Regulations (40 CFR). Unless noted otherwise, references cited in these AO conditions refer to those rules.
3. The limits set forth in this AO shall not be exceeded without prior approval in accordance with R307-401.
4. Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved in accordance with R307-401-1.
5. All records referenced in this AO or in applicable NSPS standards, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Records shall be kept for the following minimum periods:
  - A. Emission inventories Five years from the due date of each emission statement or until the next inventory is due, whichever is longer.
  - B. All other records Two years
6. Crown Asphalt Products Company shall relocate and operate the asphalt blending mill and storage tanks formerly located at Crown Asphalt Products Company's Gadsby plant in accordance with the terms and conditions of this AO, which was written pursuant to Crown Asphalt Products Company's Notice of Intent submitted to the Division of Air Quality (DAQ) on August 25, 2003.
7. This AO shall replace the AO (DAQE-213-02) dated March 22, 2002.
8. The approved installations shall consist of the following equipment or equivalent\*:
  - A. Five Natural Gas Fired Asphalt Tank Heaters
  - B. Eleven Asphalt Loading Racks
  - C. Gasoline Receiving and Loading Rack
  - D. Two Horizontal Tanks for Biological Water Treatment Process
  - E. Two (2) Hot Oil Heaters \*\*
  - F. 39 Vertical Fixed Roof Storage Tanks\*\*\*
  - G. Five Vertical Floating Roof Storage Tanks
  - H. Asphalt Blending Mill\*\*\*\*
  - I. Charollete Colloid Asphalt Mill\*\*\*\*

\* Equivalency shall be determined by the Executive Secretary.

\*\* One relocated hot oil heater

\*\*\* Six (6) relocated blend storage tanks, and two (2) relocated Polymer Oil Concentrate (POC) tanks.

\*\*\*\* Relocated asphalt blending mill and colloid asphalt mill listed for informational purposes only. These items have no emissions.

9. Crown Asphalt Products Company shall notify the Executive Secretary in writing when the relocation of the equipment listed in Condition #8 has been completed and is operational, as an initial compliance inspection is required. To insure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section.

If installation has not been completed within eighteen months from the date of this AO, the Executive Secretary shall be notified in writing on the status of the construction and/or installation. At that time, the Executive Secretary shall require documentation of the continuous construction and/or installation of the operation and may revoke the AO in accordance with R307-401-11.

### **Limitations and Tests Procedures**

10. Visible emissions from the following emission points shall not exceed the following values:

- A. All tanks - 0% opacity
- B. All other points - 15% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

For sources that are subject to NSPS, opacity shall be determined by conducting observations in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9.

11. Visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall not exceed 20% opacity. Visible emissions determinations for traffic sources shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Six points, distributed along the length of the haul road or in the operational area, shall be chosen by the Executive Secretary or the Executive Secretary's representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be made 1/2 vehicle length or greater behind the vehicle and at approximately 1/2 the height of the vehicle or greater. The accumulated six readings shall be averaged for the compliance value.
12. The following production and/or consumption limits shall not be exceeded:
  - A. 100,000 tons of asphalt received per rolling 12-month period
  - B. 35,000,000 gallons of aviation fuel received per rolling 12-month period

To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12

months. Records of consumption/production shall be kept for all periods when the plant is in operation. Production/Consumption shall be determined by shipping records. The records of consumption/production shall be kept on a daily basis. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log.

### **Fuels**

13. The owner/operator shall use natural gas as fuel in the hot oil and tank heaters.

### **Federal Limitations and Requirements**

14. In addition to the requirements of this AO, all applicable provisions of 40 CFR 60, New Source Performance Standards (NSPS) Subpart A, 40 CFR 60.1 to 60.18 and Subparts K, Ka and Kb, 40 CFR 60.110 to 60.117, 60.110a to 60.117a, 60.110b to 60.117b (Standards of Performance for Storage Vessels for Petroleum Liquids) apply to this installation.

### **Records & Miscellaneous**

15. At all times, including periods of startup, shutdown, or malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this Approval Order including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded.
16. The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring.
17. The owner/operator shall comply with R307-107. General Requirements: Unavoidable Breakdowns.

The Executive Secretary shall be notified in writing if the company is sold or changes its name.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including R307.

A copy of the rules, regulations and/or attachments addressed in this AO may be obtained by contacting the Division of Air Quality. The Utah Administrative Code R307 rules used by DAQ, the Notice of Intent (NOI) guide, and other air quality documents and forms may also be obtained on the Internet at the following web site: <http://www.airquality.utah.gov/>

The annual emissions estimations below are for the purpose of determining the applicability of Prevention of Significant Deterioration, non-attainment area, maintenance area, and Title V source requirements of the R307. They are not to be used for determining compliance.

The Potential To Emit (PTE) emissions for this source (the entire plant, or specify what portion) are currently calculated at the following values:

	<u>Pollutant</u>	<u>Tons/yr</u>
A.	PM <sub>10</sub> .....	1.3
B.	SO <sub>2</sub> .....	0.2
C.	NO <sub>x</sub> .....	6.5
D.	CO.....	6.8
E.	VOC.....	6.2
F.	HAPs.....	0.2

The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an AO. An invoice will follow upon issuance of the final Approval Order.

Sincerely,

Rusty Ruby, Manager  
New Source Review Section

